	A 10 21 A1	A . P = -4(-)	
	Application No.	Applicant(s)	
Notice of Allowability	09/700,143	BUB ET AL.	
	Examiner	Art Unit	
	Huyen Vo	2655	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to <u>3/24/2005</u> .			
2. The allowed claim(s) is/are 1,3-5,7 and 9-11.			
3. The drawings filed on 11/9/2000 are accepted by the Examiner.			
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b)			
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☐ Examiner's Amendr 8. ☑ Examiner's Stateme 9. ☐ Other	(PTO-413), e nent/Comment	·

Application/Control Number: 09/700,143

Art Unit: 2655

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1, 3-5, 7, and 9-11 are allowed over prior art of record.
- The following is an examiner's statement of reasons for allowance: Takami et al. 2. (IEEE ICASSP'92) disclose the use of a speech recognition system (also executed on a processor or computer) that digitalizes a voice signal (col. 16, pg 575), extracts features (col. 6, pg 575), uses imaging of features in an acoustical model that utilizes HMM as a basis to model speech (col. 6, pg 575), and a global search that produces a recognized word sequence (col. 6, pg 575). Alleva et al. (US 5794197) teach a method of gathering all output distributions received for a selected state of a selected triphone in the training words in a root node of s senone (col. 3, lines 4-29). Both Takami et al. and Alleva et al. fail to specifically disclose the step of adapting the probability density function by modifying the vocabulary by splitting the probability density function into a first and second probability density functions if a drop of an entropy value is below a predetermined threshold, wherein the adaptation is dynamically performed at run time. Furthermore, it would have not been obvious to one of ordinary skill in the art at the time of invention to modify Takami et al. and/or Alleva et al. to obtained the claimed invention. Therefore, claims 1, 3-5, 7, and 9-11 are allowed over prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Huyen Vo whose telephone number is 571-272-7631.

The examiner can normally be reached on M-F, 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Doris To can be reached on 703-305-4827. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Huyen X. Vo

April 4, 2004

Jum Mahy SUBAN MICHADOEA

PRIMARY EXAMINER